Louisiana Grade 6

FlyBy MathTM Alignment Mathematics Grade-Level Expectations

Number and Number Relations	
Grade-Level Expectations	FlyBy Math [™] Activities
10. Use and explain estimation strategies to predict computational results with positive fractions and decimals (N-6-M)	Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios. Predict outcomes and explain results of mathematical models and experiments.
13. Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers (N-8-M)	Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenariosPredict outcomes and explain results of mathematical models and experiments.

Measurement	
Grade-Level Expectations	FlyBy Math [™] Activities
18. Measure length and read linear measurements to the nearest sixteenth-inch and mm (M-1-M)	Calculate and measure the position and time of simulated aircraft. Represent that motion using tables, graphs, equations, and experimentation.
20. Calculate, interpret, and compare rates such as \$/lb., mpg, and mph (M-1-M) (A-5-M)	Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios. Compare airspace scenarios for both the same and different starting conditions and the same and different rates.
	Interpret the slope of a line in the context of a distance-rate-time problem.

Geometry		
Grade-Level Expectations	FlyBy Math [™] Activities	
28. Use a rectangular grid and ordered pairs to plot simple shapes and find horizontal and vertical lengths and area (G-6-M)	Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes.	

Data Analysis, Probability, and Discrete Math	
Grade-Level Expectations	FlyBy Math [™] Activities
30. Describe and analyze trends and patterns observed in graphic displays (D-2-M)	Use tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.

Patterns, Relations, and Functions		
Grade-Level Expectations	FlyBy Math [™] Activities	
37. Describe, complete, and apply a pattern of differences found in an input-output table (P-1-M) (P-2-M) (P-3-M)	Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.	